

WHAT IS CLAIMED IS:

1. A method for the verification of a quiesced database copy of a primary database comprising the steps of:

5                     (a) establishing a secondary database which replicates said primary database;

                       (b) quiescing said secondary database so that no update access to it is operable;

10                    (c) utilizing a Verify option in a database utility program to check said quiesced database copy for integrity;

                       (d) utilizing a Verifytasks option to control the number of independent tasks assigned to perform said check of said quiesced database copy for integrity.

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2. The method of claim 1 wherein step (c) of utilizing a Verify option includes the step of:

(c1) checking each row in said quiesced database copy to perform a checksum verification.

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3. The method of claim 1 wherein step (c) includes the step of:

(3c1) checking each row in said quiesced database copy to perform an addresscheck verification.

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4. The method of claim 1 which further includes the steps of:

(d) validating the integrity of said secondary database by reporting errors that occur during verification;

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(e) using the verified quiesced database copy as a recovery source of data.

5. In a network of multiple processors (10-13) connected to a database system (14) which utilizes a DM Utility program and which operates with a Disk Subsystem (22) having a primary database (15) which is duplicated 5 by a disk mirroring system (20) to a quiesced database copy (19), a system for verifying the integrity of said quiesced database copy (19) before allowing its use for access, comprising:

10 (a) means for replicating said primary database (15) with a quiesced database copy(19);

(b) means to disable access by said applications (10-13) to said quiesced database copy (19);

15 (c) means to verify the data integrity of said quiesced database copy(19).

6. The system of claim 5 which includes:

(d) means to establish data access to said quiesced database copy (19) after verification of its integrity.

7. The system of claim 5 wherein said means (c) to verify includes:

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(c1) means to execute a checksum verification of each data block in said database copy (19).

8. The system of claim 7 which includes:

(c2) means to perform an Address check operation on each data block in said quiesced database copy (19).

9. The system of claim 5 where said means (c) to verify includes:

(sc1) means to check that said duplicated database (19) is in a state of quiesce;

(sc2) means for accessing an assignment table of tasks required for verification;

(sc3) means for utilizing a Verify database portion of said DMUTILITY program to select tasks to perform verification of each selected data block in said quiesced database copy;

(sc4) means to generate a verification report.

10. The system of claim 9 wherein said means (sc4) to generate a verification report includes:

5 (sc4a) means to indicate which data blocks were integrity-verified and which blocks were marked as unavailable.

11. The system of claim 10 where said means (sc4a) to indicate includes:

5 (sc4a1) means to enable further reporting of said database to initiate a repair of said unavailable blocks.

12. The system of claim 10 where said means (sc4a1) includes:

5 (i) means to mark a checked row with a READERROR in a DISKFILEHEADER if a checksum or addresscheck verification indicated an error.